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STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

3100 Port of Benton Blvd • Richland, WA 99354 • (509) 372-7950

July 24, 2006

RECEIVED
AUG 07 2006

EDMC

Mr. Keith A. Klein, Manager
Richland Operations Office
United States Department of Energy
P.O. Box 550, MSIN: A7-50
Richland, Washington 99352

Mr. Roy J. Schepens, Manager
Office of River Protection
United States Department of Energy
P.O. Box 450, MSIN: H6-60
Richland, Washington 99352

Mr. Joel Hebdon, Director
Regulatory Compliance and Analysis Division.
United States Department of Energy
P.O. Box 550, MSIN: A5-15
Richland, Washington 99352

Mr. Patrick L. Pettiette, President
Washington Closure Hanford, LLC
3070 George Washington Way
MSIN: H0-21
Richland, Washington 99354

Ms. Lori Fritz, Director
Environmental Protection
Fluor Hanford, Inc.
P.O. Box 1000, MSIN: H8-12
Richland, Washington 99352

Mr. J.P. Henschel, Project Director
Bechtel National, Inc.
2435 Stevens Center Place
Richland, Washington 99354

Mr. Roby D. Enge, Director
Environment, Safety, Health and Quality
Pacific Northwest National Laboratory
P.O. Box 999, MSIN: K1-38
Richland, Washington 99352

Mr. Moussa N. Jaraysi, Vice President
Environmental Programs
CH2M Hill Hanford Group, Inc.
P.O. Box 1500, MSIN: H6-03
Richland, Washington 99352

Re: United States Department of Energy letter, dated July 7, 2006, *Class 1 and Class 1¹ Modifications to the Hanford Facility Resource Conservation and Recovery Act Permit* (Quarter Ending June 30, 2006)

Dear Messrs. Klein, Schepens, Hebdon, Pettiette, Henschel, Enge, Jaraysi, and Ms. Fritz:

Enclosed are Modification Notification Forms indicating those modifications that Ecology has reviewed and approved or denied for the referenced quarterly Class 1 and Class 1¹ Modifications. You will find them listed in the following pages.



Part III, Chapter 18, 305-B Storage Facility

Page 2 of 4:	Hanford Facility RCRA Permit, III.2	Approved
Page 3 of 4:	Remove and replace Chapter 1.0	Approved
Page 4 of 4:	Remove and replace Chapter 7.0	Approved

Part III, Chapter 2, Attachment 18, 305-B Storage Facility

Page 2 of 22:	Hanford Facility RCRA Permit, III.2	Approved
Page 3 of 22:	Remove and replace Chapter 11.0, Section 11.0	Approved
Page 4 of 22:	Remove and replace Chapter 11.0, Section 11.1.1	Approved
Page 5 of 22:	Remove and replace Chapter 11.0, Section 11.1.2	Approved
Page 6 of 22:	Remove and replace Chapter 11.0, Section 11.1.3	Approved
Page 7 of 22:	Remove and replace Chapter 11.0, Section 11.1.4	Approved
Page 8 of 22:	Remove and replace Chapter 11.0, Section 11.1.2	Approved
Page 9 of 22:	Remove and replace Chapter 11.0, Section 11.1.4.2.1	Approved
Page 10 of 22:	Remove and replace Chapter 11.0, Section 11.1.4.2.2	Approved
Page 11 of 22:	Remove and replace Chapter 11.0, Section 11.1.4.2.3	Approved
Page 12 of 22:	Remove and replace Chapter 11.0, Section 11.1.4.2.4	Approved
Page 13 of 22:	Remove and replace Chapter 11.0, Section 11.1.4.2.5	Approved
Page 14 of 22:	Remove and replace Chapter 11.0, Section 11.1.4.3	Approved
Page 15 of 22:	Remove and replace Chapter 11.0, Section 11.1.4.4	Approved
Page 16 of 22:	Remove and replace Chapter 11.0, Section 11.1.4.5	Approved
Page 17 of 22:	Remove and replace Chapter 11.0, Section 11.1.4.6 through 11.1.4.11	Approved
Page 18 of 22:	Remove and replace Chapter 11.0, Section 11.1.6	Approved
Page 19 of 22:	Remove and replace Chapter 11.0, Section 11.1.7	Approved
Page 20 of 22:	Remove and replace Chapter 11.0, Table 11.1	Approved
Page 21 of 22:	Remove and replace Chapter 11.0, Figure 11.1	Approved
Page 22 of 22:	Remove and replace Chapter 11.0, Section 11.2	Approved

Part III, Chapter 10 and Attachment 51, WTP

24590-LAW-PCN-ENV-06-001	4-12-06	Approved
24590-PTF-PCN-ENV-05-026	4-21-06	Approved
24590-PTF-PCN-ENV-05-027	4-21-06	Approved
24590-PTF-PCN-ENV-05-031	4-21-06	Approved
24590-PTF-PCN-ENV-05-039	4-21-06	Approved
24590-PTF-PCN-ENV-06-009	4-21-06	Approved
24590-PTF-PCN-ENV-05-025	5-16-06	Approved
24590-PTF-PCN-ENV-06-001	6-15-06	Approved
24590-LAW-PCN-ENV-06-005	6-22-06	Approved
24590-HLW-PCN-ENV-05-009	6-27-06	Approved
24590-HLW-PCN-ENV-05-011	6-27-06	Approved

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Page 3

24590-LAB-PCN-ENV-06-001	6-27-06	Approved
24590-PTF-PCN-ENV-06-008	6-27-06	Approved

Permit Attachment 4, DOE/RL-94-02 Hanford Emergency Management Plan

Page 2 of 5:	Hanford Emergency Management Plan, Section 2.2	Approved
Page 3 of 5:	Hanford Emergency Management Plan, Section 3.0, Table 3-1	Approved
Page 4 of 5:	Appendix C, Page 1 of 2	Approved
Page 5 of 5:	Appendix C, Page 2 of 2	Approved

Ecology appreciates your cooperation and again, encourages the United States Department of Energy and contractor staff to discuss the proposed Class 1 and Class 1¹ changes with Ecology's unit managers to clarify any questions or concerns.

If you have any questions, contact me at 509-372-7894.

Sincerely,



Greta P. Davis
RCRA Permitting Coordinator
Nuclear Waste Program

pll

Enclosures (28)

cc w/enc:

Tony McKarns, USDOE
Woody Russell, USDOE
Suzette Thompson, FH
Tony Miskho, FH
Megan Proctor, WCH
Stuart Harris, CTUIR
Gabriel Bohnee, NPT
Russell Jim, YN
Todd Martin, HAB
Ken Niles, ODOE
Environmental Portal
HF OR Gen. File
Administrative Record

Hanford Facility RCRA Permit Modification Notification Form

Unit:

Hanford Emergency Management Plan, DOE/RL-94-02

Permit Part & Chapter:

Permit Attachment 4

Description of Modification:

Remove and replace Section 2.0 with the attached Section 2.0.
Section 2.0, §2.2:

2.2 EMERGENCY RESPONSE ORGANIZATION STRUCTURE

Emergency response on the Hanford Site is modeled after the NFPA Incident Command National Incident Management System. As such, the Hanford Incident Command System is an integrated emergency management system with clearly defined responsibilities and communication pathways that allows predesignated and trained individuals to jointly determine and implement incident mitigation strategies.

...

WAC 173-303-830 Modification Class ^{1 2}

Please mark the Modification Class:

Class 1

Class ¹1

Class 2

Class 3

X

Enter relevant WAC 173-303-830, Appendix I Modification citation number: A.8

Enter wording of WAC 173-303-830, Appendix I Modification citation:

A.8. Changes to remove permit conditions that are no longer applicable (i.e., because the standards upon which they are based are no longer applicable to the facility).

Modification Approved: ☒ Yes ☐ No (state reason for denial)Reason for denial:

Reviewed by Ecology:

G. P. Davis 7/24/06
G. P. Davis Date

¹ Class 1 modifications requiring prior Agency approval.

² If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to a Class ¹1, if appropriate.

Hanford Facility RCRA Permit Modification Notification Form

Unit:

Permit Part & Chapter:

Hanford Emergency Management Plan, DOE/RL-94-02

Permit Attachment 4

Description of Modification:

Remove and replace Section 3.0 with the attached Section 3.0.
Section 3.0, Table 3-1:

Table 3-1. Memorandums of Understanding

PARTIES	SERVICES/AREAS OF COOPERATION	POINTS OF CONTACT	CONSTRAINTS	DATE	EXPIRATION DATE	WHERE ON FILE
...
<u>AREVA NP, Inc. Framatome ANP (formerly Siemens Power Corporation Framatome ANP)</u>	Establishes means by which RL can provide consequence assessment and meteorological information to assist Framatome ANP AREVA NP through use of RL facilities during an emergency at the Framatome ANP AREVA NP plant in Richland, Washington	Framatome ANP <u>AREVA NP</u>	Emergencies affecting the Hanford Site or Hanford facilities takes precedence over all other uses of the UDAC RL facilities and/or staff.	01/19/00 11/21/05	Remain in effect for five years from effective date, at which time it shall be reviewed and renegotiated, reissued, or terminated. Either party may withdraw upon 30 days written notice. <u>Continue until canceled by either of the parties upon 30 days written notice to the other party.</u>	RL SES
...

WAC 173-303-830 Modification Class ^{1 2}

Please mark the Modification Class:

Class 1

Class '1

Class 2

Class 3

X

Enter relevant WAC 173-303-830, Appendix I Modification citation number: A.1

Enter wording of WAC 173-303-830, Appendix I Modification citation:

A.1. General Permit Provisions, Administrative and informational changes

Modification Approved: ☒ Yes ☐ No (state reason for denial)

Reason for denial:

Reviewed by Ecology:

G. P. Davis 7/24/06
G. P. Davis Date

¹ Class 1 modifications requiring prior Agency approval.² If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to a Class '1, if appropriate.

Hanford Facility RCRA Permit Modification Notification Form

Unit:

Hanford Emergency Management Plan, DOE/RL-94-02

Permit Part & Chapter:

Permit Attachment 4

Description of Modification:

Remove and replace Appendix C with the attached Appendix C.
Appendix C, Page 1 of 2:

EQUIPMENT ¹	DESCRIPTION	NORMALLY LOCATED ²
...
Brush Fire Trucks 6 each	Examples of equipment contained on brush fire trucks: <ul style="list-style-type: none"> • 500 gal/min (1,892.7 L/min) pump; • 1,500-gal (5,678.1 L) 2,500 gal (9463.5 L) water tank; • 6x6 with 2,000-gal (7,570.8 L) 2,500 gal (9463.5 L) porti-tank; and • hose, nozzles, fittings, and tools. 	1 at Station 91 2 at Station 92 2 at Station 93 1 at Station 94
...
Ambulances 6 each	Examples of equipment contained on ambulances: <ul style="list-style-type: none"> • life support systems; and • medical and emergency response supplies. 	1 at Station 91 2 at Station 92 1 2 at Station 93 2 1 at Station 94
...

WAC 173-303-830 Modification Class ^{1 2}

Please mark the Modification Class:

Class 1

Class 1

Class 2

Class 3

X

Enter relevant WAC 173-303-830, Appendix I Modification citation number: (d)(i) Other modifications.

Enter wording of WAC 173-303-830, Appendix I Modification citation:

d.i. Review and approve as a Class 1 modification

Modification Approved: ☒ Yes ☐ No (state reason for denial)

Reason for denial:

Reviewed by Ecology:



G. P. Davis

7/24/06

Date

¹ Class 1 modifications requiring prior Agency approval.² If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to a Class 1, if appropriate.

Hanford Facility RCRA Permit Modification Notification Form				
Unit: Hanford Emergency Management Plan, DOE/RL-94-02		Permit Part & Chapter: Permit Attachment 4		
Description of Modification: Remove and replace Appendix C with the attached Appendix C. Appendix C, Page 2 of 2:				
EQUIPMENT¹	DESCRIPTION	²NORMALLY LOCATED²		
...		
Hazardous Materials Vehicle 2 each	Examples of equipment contained on hazardous materials vehicle: <ul style="list-style-type: none"> protective clothing for Hazardous Materials Response Team; breathing apparatus for Hazardous Materials Response Team; diking, plugging, and damming equipment; detection instruments for Hazardous Materials Response Team; tools for plugging and repairing leaking containers; overpack containers for leaking containers; command module with material safety data sheets, software, and portable meteorological station; and tools and communications devices necessary to provide communications during emergency response activities. 	1 <u>2</u> at Station 92 1 at Station 93		
...		
Rescue Truck 1 <u>2</u> each	Examples of equipment contained on rescue truck: <ul style="list-style-type: none"> heavy and light rescue; water rescue; hi/lo angle rescue; and trench rescue. 	1 at Station 92 1 at Station 93		
¹ Emergency response vehicles identified in this table shall be serviced and maintained to keep them in safe operating condition and ready for response at all times. Should a unit be out of service for more than 30 days, written justification shall be provided to the Hanford Fire Department for review and approval. The written justification, when approved, will be maintained by the Hanford Fire Department until the equipment is returned to service.				
² The Hanford Fire Department Chief has the authority to: 1) direct the placement of equipment as needed to control emergency events; and 2) take proactive action and assign different vehicle locations based on conditions such as fuel moisture content, area fire history, work in progress, or other conditions that could arise.				
WAC 173-303-830 Modification Class ^{1 2}		Class 1	Class '1	Class 2
Please mark the Modification Class:			X	
Enter relevant WAC 173-303-830, Appendix I Modification citation number: (d)(i) Other modifications.				
Enter wording of WAC 173-303-830, Appendix I Modification citation:				
d.i. Review and approve as a Class '1 modification				
Modification Approved: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (state reason for denial) Reason for denial:			Reviewed by Ecology: <div style="text-align: center;"> G. P. Davis </div> <div style="text-align: right;"> 7/24/06 Date </div>	

¹ Class 1 modifications requiring prior Agency approval.

² If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to a Class '1, if appropriate.

Hanford Facility RCRA Permit Modification Notification Form																								
Unit: 305-B Storage Facility	Permit Part & Chapter: Part III, Chapter 2 and Attachment 18																							
<p><u>Description of Modification:</u> Hanford Facility RCRA Permit, III.2:</p> <p style="text-align: center;">CHAPTER 2 305-B Storage Facility</p> <p>The 305-B Storage Facility (305-B) is an active storage unit for dangerous wastes and mixed wastes. These wastes are derived primarily from research and development activities and laboratory activities in the 300 Area. This Chapter sets forth the operating Conditions for this TSD unit.</p> <p>III.2.A. <u>COMPLIANCE WITH APPROVED PERMIT APPLICATION</u></p> <p>The Permittees shall comply with all the requirements set forth in Attachment 18, including all Class 1 modifications specified below, and the Amendments specified in Condition III.2.B. Enforceable portions of the permit application have been incorporated in Attachment 18 and are identified as follows. All subsections, figures, and tables included in these portions are also enforceable, unless stated otherwise:</p> <p><u>ATTACHMENT 18:</u></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Chapter 1.0</td> <td>Part A Dangerous Waste Permit, Revision 23, from Class 1 modification dated May 2005 <u>June 30, 2006</u></td> </tr> <tr> <td>Chapter 2.0</td> <td>Unit Description, from Class 1 modification dated March 31, 2005</td> </tr> <tr> <td>Chapter 3.0</td> <td>Waste Analysis Plan, from Class 1 modification dated March 31, 2005</td> </tr> <tr> <td>Chapter 4.0</td> <td>Process Information, from Class 1 modification dated December 31, 2003</td> </tr> <tr> <td>Chapter 6.0</td> <td>Procedures to Prevent Hazards, from Class 1 modification dated March 31, 2005</td> </tr> <tr> <td>Chapter 7.0</td> <td>Building Emergency Procedure, from Class 1 modification dated September 30, 2005 <u>June 30, 2006</u></td> </tr> <tr> <td>Chapter 8.0</td> <td>Personnel Training, from Class 1 modification dated September 30, 2003</td> </tr> <tr> <td>Chapter 11.0</td> <td>Closure and Post-Closure Requirements, from Class 1 modification dated June 30, 2006</td> </tr> <tr> <td>Chapter 12.0</td> <td>Reporting and Recordkeeping, from Class 1 modification dated August 2004</td> </tr> <tr> <td>Chapter 13.0</td> <td>Other Relevant Laws, from Class 1 modification dated August 2004</td> </tr> </table> <p>III.2.B. <u>AMENDMENTS TO THE APPROVED PERMIT APPLICATION</u></p> <p>III.2.B.1 For all shipments of dangerous waste to or from this TSD unit, except for shipments which occur wholly within the 300 Area, the Permittees shall comply with Conditions IIP and II.Q of this Permit</p>					Chapter 1.0	Part A Dangerous Waste Permit, Revision 23 , from Class 1 modification dated May 2005 <u>June 30, 2006</u>	Chapter 2.0	Unit Description, from Class 1 modification dated March 31, 2005	Chapter 3.0	Waste Analysis Plan, from Class 1 modification dated March 31, 2005	Chapter 4.0	Process Information, from Class 1 modification dated December 31, 2003	Chapter 6.0	Procedures to Prevent Hazards, from Class 1 modification dated March 31, 2005	Chapter 7.0	Building Emergency Procedure, from Class 1 modification dated September 30, 2005 <u>June 30, 2006</u>	Chapter 8.0	Personnel Training, from Class 1 modification dated September 30, 2003	Chapter 11.0	Closure and Post-Closure Requirements, from Class 1 modification dated June 30, 2006	Chapter 12.0	Reporting and Recordkeeping, from Class 1 modification dated August 2004	Chapter 13.0	Other Relevant Laws, from Class 1 modification dated August 2004
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WAC 173-303-830 Modification Class ^{1 2}		Class 1	Class 1 ¹	Class 2	Class 3																			
Please mark the Modification Class:		X																						
Enter relevant WAC 173-303-830, Appendix I Modification citation number: A.1 Enter wording of WAC 173-303-830, Appendix I Modification citation: A.1. General Permit Provisions, Administrative and informational changes																								
Modification Approved: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (state reason for denial) <u>Reason for denial:</u>			Reviewed by Ecology: <div style="text-align: center;"> G. P. Davis </div> <div style="text-align: right;"> <u>7/24/06</u> Date </div>																					

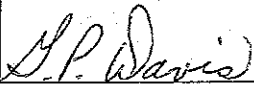
¹ Class 1 modifications requiring prior Agency approval.

² If the proposed modification does not match any modification listed in WAC 173-303-830, Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Washington State Department of Ecology, or downgraded to a Class 1¹, if appropriate.

Hanford Facility RCRA Permit Modification Notification Form														
Unit: <div style="text-align: center; font-weight: bold;">305-B Storage Facility</div>	Permit Part & Chapter: <div style="text-align: center; font-weight: bold;">Part III, Chapter 2 and Attachment 18</div>													
<u>Description of Modification:</u> Remove and replace Chapter 1.0 with the attached Chapter 1.0 dated June 2006. Modified Part A to reflect change in contractor from Pacific Northwest National Laboratory to Washington Closure Hanford, LLC.														
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%; text-align: left;">WAC 173-303-830 Modification Class ^{1 2}</th> <th style="width: 12.5%;">Class 1</th> <th style="width: 12.5%;">Class ¹1</th> <th style="width: 12.5%;">Class 2</th> <th style="width: 12.5%;">Class 3</th> </tr> </thead> <tbody> <tr> <td style="padding: 2px;">Please mark the Modification Class:</td> <td></td> <td style="text-align: center;">X</td> <td></td> <td></td> </tr> </tbody> </table>					WAC 173-303-830 Modification Class ^{1 2}	Class 1	Class ¹ 1	Class 2	Class 3	Please mark the Modification Class:		X		
WAC 173-303-830 Modification Class ^{1 2}	Class 1	Class ¹ 1	Class 2	Class 3										
Please mark the Modification Class:		X												
Enter relevant WAC 173-303-830, Appendix I Modification citation number: Permit Condition I.E.14.a Enter wording of WAC 173-303-830, Appendix I Modification citation: Unit-specific portion may be transferred to a new Co-operator as a Class ¹ 1 modification with prior approval of the Department's director.														
Modification Approved: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (state reason for denial) <u>Reason for denial:</u>			Reviewed by Ecology: <div style="text-align: center;"> G. P. Davis </div> <div style="text-align: right;"> 7/24/06 Date </div>											

¹ Class 1 modifications requiring prior Agency approval.

² If the proposed modification does not match any modification listed in WAC 173-303-830, Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Washington State Department of Ecology, or downgraded to a Class ¹1, if appropriate.

Hanford Facility RCRA Permit Modification Notification Form				
Unit: 305-B Storage Facility	Permit Part & Chapter: Part III, Chapter 2 and Attachment 18			
<u>Description of Modification:</u> Remove and replace Chapter 7.0 with the attached Chapter 7.0 dated June 30, 2006 Modified to reflect change in contractor from Pacific Northwest National Laboratory to Washington Closure Hanford, LLC and facility closure.				
WAC 173-303-830 Modification Class ^{1 2} Please mark the Modification Class:				
	Class 1	Class ¹ 1	Class 2	Class 3
		X		
Enter relevant WAC 173-303-830, Appendix I Modification citation number: Permit Condition I.E.14.a Enter wording of WAC 173-303-830, Appendix I Modification citation: Unit-specific portion may be transferred to a new Co-operator as a Class ¹ 1 modification with prior approval of the Department's director.				
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¹ Class 1 modifications requiring prior Agency approval.

² If the proposed modification does not match any modification listed in WAC 173-303-830, Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Washington State Department of Ecology, or downgraded to a Class ¹1, if appropriate.

Hanford Facility RCRA Permit Modification Notification Form																								
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			X																					
Enter relevant WAC 173-303-830, Appendix I Modification citation number: D.1 Enter wording of WAC 173-303-830, Appendix I Modification citation: D.1. Closure, Changes to the closure plan.																								
Modification Approved: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (state reason for denial) <u>Reason for denial:</u>			Reviewed by Ecology: <div style="text-align: center; margin-top: 10px;"> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> G. P Davis 4/19/06 Date </div>																					

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Hanford Facility RCRA Permit Modification Notification Form														
Unit: 305-B Storage Facility	Permit Part & Chapter: Part III, Chapter 2													
Description of Modification: Remove and replace Chapter 11.0 with the attached Chapter 11.0 dated June 30, 2006 Chapter 11.0, §11.0:														
11.0 CLOSURE AND POST-CLOSURE REQUIREMENTS														
<p>This chapter is submitted in accordance with the requirements of WAC 173-303-806(4)(a)(xiii) to demonstrate that DOE-RL has a plan has been developed a plan to ensure safe closure of the 305-B Storage Facility. In accordance with WAC 173-303-610, copies of the closure plan and all revisions will be maintained at 305-B Storage Facility until certification of closure completeness has been submitted and accepted by Ecology in the unit specific operating record. A post closure plan is not required because 305-B Storage Facility is not a disposal unit and all dangerous waste and dangerous waste residues will be removed at the time of closure.</p>														
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px;">WAC 173-303-830 Modification Class ^{1 2}</td> <td style="width: 12.5%; padding: 5px;">Class 1</td> <td style="width: 12.5%; padding: 5px;">Class 1</td> <td style="width: 12.5%; padding: 5px;">Class 2</td> <td style="width: 12.5%; padding: 5px;">Class 3</td> </tr> <tr> <td style="padding: 5px;">Please mark the Modification Class:</td> <td style="padding: 5px;"></td> <td style="text-align: center; padding: 5px;">X</td> <td style="padding: 5px;"></td> <td style="padding: 5px;"></td> </tr> </table>					WAC 173-303-830 Modification Class ^{1 2}	Class 1	Class 1	Class 2	Class 3	Please mark the Modification Class:		X		
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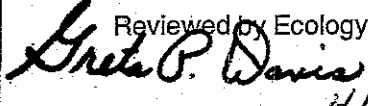
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Hanford Facility RCRA Permit Modification Notification Form														
Unit: 305-B Storage Facility	Permit Part & Chapter: Part III, Chapter 2													
Description of Modification: Remove and replace Chapter 11.0 with the attached Chapter 11.0 dated June 30, 2006 Chapter 11.0, §11.1.1: 11.1.1 Closure Performance Standard The 305-B Storage Facility will be closed in a manner that will minimize the need for further maintenance and eliminate post-closure release of dangerous/mixed waste or dangerous/mixed waste constituents that could pose a risk to human health or the environment. This standard will be met by removal of all dangerous/mixed waste and dangerous/mixed residues from the unit. Closure activities will return assist in preparing the 305-B Storage Facility for demolition site to the appearance and use of surrounding land areas. After closure, the 305-B Storage Facility will be in a condition suitable for use to support research and development activities demolished in accordance with the Removal Action Work Plan #1 for the 300 Area Facilities (DOE/RL-2004-77). This use is consistent with the surrounding land use. If there is any evidence of spills or leaks from the unit into the environment, samples will be taken and analyzed to determine the extent of contamination in the soil, and if necessary, in groundwater. Evidence of spills or leaks will be obtained through sampling (a) review of spill reports and operating log books; (b) visual inspection of unit structures accessible to the environment (e.g., floors) and through inspection of all visible barriers designed to prevent migration to the environment (e.g., sumps), and (c) sampling, as appropriate necessary to characterize waste/debris that is found while performing visual inspection. If this sampling inspection program indicates that contamination is present, the potential for migration of contamination to the environment will be evaluated. If potential migration appears likely, additional samples will be taken. In addition, if the inspections identify any potential contaminant migration routes (e.g., cracks in sumps), additional samples will be collected to determine whether migration has occurred. Waste site specific information discovered during facility closure will be updated in WIDS. Spill reports and logs shall be consulted to determine potential areas of contamination. <u>Spill reports and operating log books have been reviewed and it has been determined that there is no soil contamination resulting from TSD activities. Therefore, no closure actions outside of the unit boundary are should be required.</u> Any contaminated soil will be excavated, removed, and disposed as dangerous or mixed waste. Soil will be decontaminated to the following levels, as required under WAC 173-303-610(2)(b): <input type="checkbox"/> Background environmental levels for waste which are listed under WAC 173-303-081 or WAC 173-303-082 <input checked="" type="checkbox"/> Background environmental levels for waste which are characteristic dangerous waste under WAC 173-303-090 <input checked="" type="checkbox"/> Designation limits for waste that are designated under WAC 173-303-084, or WAC 173-303-101 through WAC 173-303-103. Equipment and structural components will be decontaminated using the procedures described in Section 11.1.4. All residues resulting from decontamination will be sampled and analyzed, managed as described in Section 11.1.4.3, to determine whether they are dangerous waste. All residues will be removed from the unit and transferred to a facility having the necessary permits disposed in accordance with approved CERCLA decision documents. Residues containing listed waste, having dangerous waste characteristics, or exceeding dangerous waste designation limits will be disposed as dangerous waste treated, if necessary, to meet land disposal regulations the disposal facility (40 CFR 268.45).														
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Hanford Facility RCRA Permit Modification Notification Form				
Unit: 305-B Storage Facility	Permit Part & Chapter: Part III, Chapter 2			
<u>Description of Modification:</u> Remove and replace Chapter 11.0 with the attached Chapter 11.0 dated June 30, 2006 Chapter 11.0, §11.1.2:				
<p>11.1.2 Partial and Final Closure Activities</p> <p>This plan identifies the steps necessary to perform final closure of the unit in order to meet the aforementioned closure performance standard (Section 11.1.1). Closure activities involve removal of <u>the dangerous and mixed waste from from the unit</u> and decontamination of the unit, <u>as necessary</u>. These activities can be implemented at any point during the active life of the unit. Partial closure of the unit will not be conducted. The entire 305-B Storage Facility will be <u>was</u> in use at all times prior to closure. The entire unit, therefore, represents the maximum extent of the operation that will be unclosed during the unit's active life.</p>				
WAC 173-303-830 Modification Class ^{1 2} Please mark the Modification Class:				
	Class 1	Class ¹ 1	Class 2	Class 3
		X		
Enter relevant WAC 173-303-830, Appendix I Modification citation number: D.1 Enter wording of WAC 173-303-830, Appendix I Modification citation: D.1. Closure, Changes to the closure plan.				
Modification Approved: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (state reason for denial) <u>Reason for denial:</u>		Reviewed by Ecology:  <div style="display: flex; justify-content: space-between;"> G. P Davis 4/19/06 </div>		
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Hanford Facility RCRA Permit Modification Notification Form												
Unit: 305-B Storage Facility	Permit Part & Chapter: Part III, Chapter 2											
Description of Modification: Remove and replace Chapter 11.0 with the attached Chapter 11.0 dated June 30, 2006 Chapter 11.0, §11.1.3: 11.1.3 Maximum Waste Inventory The 305-B Storage Facility is <u>was</u> used to store a variety of different research-related waste. The maximum inventory of waste in storage at any time will be <u>was</u> constrained by three factors: <ul style="list-style-type: none"> The total amount of dangerous/mixed waste in storage at 305-B Storage Facility at any time will<u>did</u> not exceed the design capacity of 30,000 gallons (it is<u>was</u> typically 2,000 to 5,000 gallons) The total amount of any particular dangerous/mixed waste in storage during any given year will<u>did</u> not exceed the amounts given in the Part A permit application for 305-B Storage Facility (Chapter 1.0, Part A) The total amount of dangerous/mixed waste by hazard class in storage at any one time will<u>did</u> not exceed Uniform Building Code Class B Hazardous Material Quantity Restrictions (Chapter 4.0, Table 4.1). Except on the relatively rare occasion when 85-gallon overpacks are used, approximately 90 percent of all dangerous wastes shipped from the unit are <u>were</u> contained in 55-gallon drums, with the remaining 10 percent consisting of 30-gallon and smaller containers.												
<div style="display: flex; justify-content: space-between;"> <div style="width: 50%;"> WAC 173-303-830 Modification Class ^{1 2} Please mark the Modification Class: </div> <table border="1" style="width: 45%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="padding: 5px;">Class 1</th> <th style="padding: 5px;">Class ¹1</th> <th style="padding: 5px;">Class 2</th> <th style="padding: 5px;">Class 3</th> </tr> </thead> <tbody> <tr> <td style="height: 20px;"></td> <td style="height: 20px;">X</td> <td style="height: 20px;"></td> <td style="height: 20px;"></td> </tr> </tbody> </table> </div>					Class 1	Class ¹ 1	Class 2	Class 3		X		
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Unit: 305-B Storage Facility	Permit Part & Chapter: Part III, Chapter 2													
Description of Modification: Remove and replace Chapter 11.0 with the attached Chapter 11.0 dated June 30, 2006 Chapter 11.0, §11.1.4.1:														
11.1.4.1 Inventory Removal <p>The TSD operations will be transferred to the 331-C Storage Unit. Therefore, 305-B Storage Facility Closure activities will be initiated <u>after</u> by removal of the dangerous/mixed waste inventory present at <u>has been moved to 331-C Storage Unit. In the event that any of the waste inventory is encountered during closure, 305-B Storage Facility at the time of closure. Inventory removal procedures will be similar identical to the waste handling, packaging, and manifesting activities associated with normal operation of the unit. All dangerous waste present will be placed into proper containers according to currently accepted waste handling procedures; mixed waste will be placed into containers and meet Hanford specifications outlined in WHC EP 0063, Hanford Radioactive Solid Waste Packaging, Storage, and Disposal Requirements. To the extent possible, chemicals will be bulked into larger containers. If wastes are bulked, containers will be emptied in compliance with WAC 173-303-160 so that they are not dangerous waste. Small quantity laboratory chemicals that cannot be bulked will be packaged into labpack containers in compliance with the requirements of WAC 173-303-161. All containers of dangerous/mixed waste will be manifested, and custody transferred to a dangerous waste transporter having a proper dangerous waste identification number. Waste will be transported to a permitted dangerous waste facility for treatment or disposal.</u></p>														
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Hanford Facility RCRA Permit Modification Notification Form					
Unit: 305-B Storage Facility	Permit Part & Chapter: Part III, Chapter 2				
Description of Modification: Remove and replace Chapter 11.0 with the attached Chapter 11.0 dated June 30, 2006 Chapter 11.0, §11.1.4.2: 11.1.4.2 Decontamination Inspection of Building Equipment and Structures All equipment and structures in dangerous/mixed waste handling and storage areas will be decontaminated <u>visually inspected</u> at the time of closure. Equipment and structures to be decontaminated <u>inspected</u> include: <ul style="list-style-type: none"> Floors and walls of the four dangerous waste storage cells Floors, walls, and ceiling of high bay and flammable liquid bulking module areas Floors and walls of remainder of first floor except for offices, work area, and lavatories/change rooms Floors, walls, and ceiling of basement except equipment storage room Interior surfaces of all secondary containment trenches Fork lift and loading hoist Asphalt ramp outside north high bay door. Before decontamination, sampling and analysis will be performed to determine decontamination requirements. In most cases, minimal decontamination consisting of washing or wiping will be performed unless the sampling and analysis indicates the presence of significant contamination. In order to determine whether such contamination exists, a systematic sampling approach designed to identify the presence of contaminated areas will be employed. Structures (i.e., floors, walls, ceilings) to be sampled before decontamination will be sampled on a regular grid with a spacing of 5 feet. This spacing provides an 80 percent probability of detecting a circular area of contamination having a radius of 2.5 feet or larger. Biased sampling of areas more likely to have been contaminated by unit operations, such as cracks or seams in the concrete floor or any visible stains, or areas of documented spills or releases, will also be performed. If any areas of contamination are detected, more thorough decontamination procedures will be used in those areas. Structural surfaces will be sampled by collecting wipe samples at each grid point. At each sample location, two samples will be collected within adjacent 1-foot square templates. One sample will be collected using a gauze pad wetted with dilute nitric acid for extraction of inorganic contaminants. The other sample will be collected with a gauze pad wetted with hexane for extraction of organic contaminants. Decontamination of equipment and structures will take place as described below. The magnitude of each phase of the operation and estimated time for completion is included. <u>Where accessible, building structures will be visually inspected concurrently</u> aconcurrently <u>while still in-place in the system and before decontamination.</u> <u>The inspections will determine which of the materials that will remain after closure already meet the clean closure standard of a "clean debris surface" and which the materials requiring decontamination to meet the standard. A "clean debris surface means the surface, that when viewed without magnification, shall be free of all visible contaminated soil and hazardous waste, except that residual staining from soil and waste consisting of light shadows, slight streaks, or minor discoloration, and soils and waste in cracks, crevices and pits shall be limited to no more than 5% of each square inch of surface area." (40 CFR 268.45)</u> <u>Materials removed from the facility as hazardous debris will be managed as described in Section 11.1.4.3 will be disposed in accordance with approved CERCLA documentation. Inspection of materials for a "clean debris surface" will be documented on a checklist that will identify the area inspected, whether decontamination/treatment methods were implemented and the standard used to perform the inspection.</u>					
WAC 173-303-830 Modification Class ^{1 2} Please mark the Modification Class:		Class 1	Class 1 ¹	Class 2	Class 3
			X		
Enter relevant WAC 173-303-830, Appendix I Modification citation number: D.1 Enter wording of WAC 173-303-830, Appendix I Modification citation: D.1. Closure, Changes to the closure plan.					
Modification Approved: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (state reason for denial) Reason for denial:			Reviewed by Ecology: <div style="text-align: center;"> G. P. Davis </div> <div style="text-align: right;"> 4/19/06 Date </div>		

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Hanford Facility RCRA Permit Modification Notification Form					
Unit: 305-B Storage Facility		Permit Part & Chapter: Part III, Chapter 2			
Description of Modification: Remove and replace Chapter 11.0 with the attached Chapter 11.0 dated June 30, 2006 Chapter 11.0, §11.1.4.2.1:					
11.1.4.2.1 Decontamination of Basement <p>Once Cell 7 has been completely emptied of stored waste, any visible residues <u>present that do not meet the definition of a "clean debris surface"</u>, will be scraped, vacuumed and/or swept up <u>removed until visibly clean</u>. All residues thus obtained will be <u>managed as described in Section 11.1.4.3 placed in open top drums suitable containers and disposed of as appropriate (in accordance with the approved CERCLA decision document???)</u>. All waste materials generated during the decontamination process of the Cell 7 will be designated to determine whether the waste generated from decontamination is <u>mixed waste appropriately</u>. After the above process is completed, wipe samples will be collected at various points along the floors, walls, and ceiling of the basement.</p> <p>Swab samples will be collected from the Cell 7 to test for dangerous waste contamination resulting from storage activities. Any dangerous waste contamination found during this testing will be presumed to have come from storage activities unless otherwise documented. Random and biased sampling locations will be selected using the procedures noted in Section 11.4.4.</p> <p>The swab samples will be analyzed for mixed waste constituents. Baseline smears will have been documented prior to introduction of mixed waste. Once the results from the testing are known, a decision can be made as to the appropriate decontamination procedures. If no contamination is found on the swab samples, decontamination procedures will consist of dusting, vacuuming, and wiping with soap and water. Vacuuming is performed using a commercial or industrial vacuum equipped with a high efficiency particulate air (HEPA) filter. The vacuum cleaner bag containing captured particulates is disposed of as appropriate.</p> <p>Dusting/wiping is done with a damp cloth or wipe (soaked with water or solvent) to remove dust from surfaces not practically treatable with a vacuum. The cloth or wipe is also disposed of as appropriate. Brushing or sweeping is used to clean up coarse debris.</p> <p>Minimal time will be required for setup of the equipment. Labor requirements for the process should be moderate. Minimal time will also be required for packaging debris and dismantling and removing cleaning equipment. Little wastewater (only the contents of the buckets) will be generated by this procedure. However, if contamination is found on the swab samples, more sophisticated decontamination procedures must be implemented. The entire Cell 7 storage room will be extensively treated via steam cleaning. Applying steam from a hand held wand to remove all residues from the surfaces will treat the ceiling, all four walls, and the floor. The contaminated wastewater generated by this activity will be contained by the designed spill controls already in place for waste storage areas. Pumps or vacuums will be used to empty the wastewater from the containment area into polyethylene lined, closed top drums. These containers will be transported for proper management at an approved dangerous waste or mixed waste TSD facility.</p> <p>Although this procedure will require more time than the dusting, vacuuming, and wiping procedures outlined above, time requirements are still considered to be minimal for the steam cleaning approach. Wastewaters generated by this procedure are not anticipated to exceed 100 gallons.</p> <p>Following completion of decontamination, sampling will be performed, as described in Section 11.1.4.4, to verify that decontamination is complete.</p>					
WAC 173-303-830 Modification Class ^{1 2}		Class 1	Class 1 ¹	Class 2	Class 3
Please mark the Modification Class:			X		
Enter relevant WAC 173-303-830, Appendix I Modification citation number: D.1					
Enter wording of WAC 173-303-830, Appendix I Modification citation:					
D.1. Closure, Changes to the closure plan.					
Modification Approved: <input checked="" type="checkbox"/> SA Yes <input type="checkbox"/> No (state reason for denial)			Reviewed by Ecology: <i>Gretchen P. Davis</i> 4/11/06		
Reason for denial:			G. P Davis Date		

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<u>Description of Modification:</u> Remove and replace Chapter 11.0 with the attached Chapter 11.0 dated June 30, 2006 Chapter 11.0, §11.1.4.2.2:														
11.1.4.2.2 Decontamination of Waste Handling Equipment <p>All equipment will be decontaminated first by solvent washing followed by steam cleaning, or managed as described in Section 11.1.4.3 disposed of as dangerous waste, as appropriate, at an approved disposal facility (in accordance with the approved CERCLA decision document??). The decision to dispose or decontaminate equipment will be made at the time of closure. Whichever option, in the opinion of the Building Supervisor, is most environmentally and economically feasible will be chosen. If the equipment is not considered to be substantially contaminated, the solvent washing may not be performed. In this case, the steam cleaning technique only will clean the equipment.</p> <p>All equipment to be decontaminated will be placed in one of the fully contained storage cells and subjected to the solvent wash deemed most effective for the removal of the suspected contamination. The equipment is then subjected to a final washing and rinsing by a steam cleaning unit. All wastewaters will be collected in the storage cell sumps, pumped to polyethylene lined closed top drums, and transported and disposed of as dangerous waste.</p> <p>The time required for completion and wastewaters generated by these processes are largely dependent upon the amount of equipment that needs to be treated. However, at this time, minimal time and effort are anticipated. In addition, wastes to be generated are not anticipated to exceed 50 gallons.</p> <p>Following completion of decontamination, sampling will be performed, as described in Section 11.1.4.4, to verify that decontamination is complete.</p>														
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Hanford Facility RCRA Permit Modification Notification Form

Unit:
305-B Storage Facility

Permit Part & Chapter:
Part III, Chapter 2

Description of Modification:

Remove and replace Chapter 11.0 with the attached Chapter 11.0 dated June 30, 2006
Chapter 11.0, §11.1.4.2.3:

11.1.4.2.3 Decontamination of Dangerous Waste Storage Cells

The dangerous waste storage cells will be inspected and any visible contamination present in the storage cells will be scraped and/or swept until visibly clean/decontaminated as needed to meet the definition of "clean surface debris". All collected residues obtained from the scraping/sweeping exercise will be managed as described in Section 11.1.4.3 placed in open top drums/suitable containers and disposed of as dangerous waste in accordance with approved CERCLA documentation. Each of the four storage cells will be steam-cleaned using one or more of the removal technologies described in 40 CFR 268.45, as necessary to meet the "clean debris surface" criteria, and any generated wastewaters will be collected in each from each of the storage cell's individual sumps. The wastewaters will be pumped from the sumps to polyethylene-lined, closed top drums and placed in suitable containers in preparation for disposal. No wastewaters will be mixed with scrapings, sweepings, or wastewaters from other storage cells.

The containerized waste will be analyzed to determine if they are designated as dangerous waste under WAC 173-303-070, and disposed in accordance with approved CERCLA documentation. Each sump area will be re-rinsed with water. This water will similarly be pumped to containers for disposal.

The containerized wastewaters will be analyzed to determine if they are designated as dangerous waste under WAC 173-303-070. If designated as dangerous, the wastewaters will be handled, transported, and disposed of as dangerous waste. If not dangerous waste, the wastewater will be managed appropriately. Total decontamination of the storage cells should be completed in no more than 2 weeks. Each of the storage cells should have approximately 30 gallons of wastewater generated during the cleaning and rinsing process; therefore, a total of 120 gallons of wastewater will need to be analyzed and disposed.

Following completion of decontamination, sampling will be performed, as described in Section 11.1.4.4, to verify that decontamination is complete.

WAC 173-303-830 Modification Class ^{1 2}

Please mark the Modification Class:

Class 1	Class 1 ¹	Class 2	Class 3
	X		

Enter relevant WAC 173-303-830, Appendix I Modification citation number: D.1

Enter wording of WAC 173-303-830, Appendix I Modification citation:

D.1. Closure, Changes to the closure plan.

Modification Approved: ☒ Yes ☐ No (state reason for denial)

Reason for denial:

Reviewed by Ecology:

Greta P. Davis
4/19/06
G. P Davis Date

¹ Class 1 modifications requiring prior Agency approval.

² If the proposed modification does not match any modification listed in WAC 173-303-830, Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or downgraded to a Class ¹1, if appropriate.

Hanford Facility RCRA Permit Modification Notification Form														
Unit: 305-B Storage Facility	Permit Part & Chapter: Part III, Chapter 2													
Description of Modification: Remove and replace Chapter 11.0 with the attached Chapter 11.0 dated June 30, 2006 Chapter 11.0, §11.1.4.2.4: 11.1.4.2.4 Decontamination of High Bay, Flammable Liquid Bulking Module and Other First Floor Areas <p>Wipe samples will be collected at various points along the floors, walls, and ceiling of the entire first floor, except for the office, supply/office area, lunch room, and rest room. <u>will be visually inspected.</u> The inspections will determine which of the structure that will remain after closure already meet the clean closure standard of a "clean debris surface" and which the materials requiring decontamination to meet the standard. <u>A "clean debris surface means the surface, that when viewed without magnification, shall be free of all visible contaminated soil and hazardous waste, except that residual staining from soil and waste consisting of light shadows, slight streaks, or minor discoloration, and soils and waste in cracks, crevices and pits shall be limited to no more than 5% of each square inch of surface area."</u> (40 CFR 268.45)</p> <p><u>Materials removed from the system as hazardous debris will be managed as described in Section 11.1.4.3 disposed in accordance with approved CERCLA documentation.</u> Inspection of materials for a "clean debris surface" will be documented on a checklist that will identify the area inspected, whether decontamination/treatment methods were implemented and the standard used to perform the inspection. The wipe samples will be analyzed to determine if these areas have been contaminated with dangerous waste constituents. Once the results from the testing are known, a decision can be made as to the appropriate decontamination procedures.</p> <p>If no contamination is found on the wipe samples, decontamination procedures will consist of dusting, vacuuming, and wiping. Vacuuming is performed using a commercial or industrial vacuum equipped with a HEPA filter. The vacuum cleaner bag containing captured particulates is disposed of as appropriate.</p> <p>Dusting/wiping is done with a damp cloth or wipe (soaked with water or solvent) to remove dust from surfaces not practically treatable with a vacuum. The cloth or wipe is also disposed of as appropriate. Brushing or sweeping is used to clean up coarse debris.</p> <p>Minimal time will be required for setup of the equipment. Labor requirements for the process should be moderate. Minimal time will also be required for packaging debris and dismantling and removing cleaning equipment. Little wastewater (only the contents of the buckets) will be generated by this procedure.</p> <p>On the other hand, if contamination above the clean surface debris criteria is found, on the wipe samples, more sophisticated decontamination procedures must be implemented. The affected areas will be extensively treated via steam cleaning. Applying steam with a hand-held wand to remove all residues from the surfaces will treat such areas. <u>The Any contaminated wastewater material generated by this activity will be managed as described in Section 11.1.4.3 be contained, designated, and disposed in accordance with approved CERCLA decision documents.</u> by the designed spill controls already in place for the waste storage areas. Pumps will be used to empty the wastewater from the containment area into polyethylene lined closed top drums. These containers will be transferred for proper treatment or disposal at an approved dangerous waste facility. Although this procedure will require more time than the dusting, vacuuming, and wiping procedures outlined above, time requirements are still considered to be minimal for the steam cleaning approach. Wastewaters generated by this procedure are not anticipated to exceed 200 gallons.</p> <p>Following completion of decontamination, <u>sampling another visual inspection</u> will be performed, as described in Section 11.1.4.4, to verify that decontamination is complete.</p>														
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WAC 173-303-830 Modification Class ¹²	Class 1	Class '1	Class 2	Class 3										
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Enter relevant WAC 173-303-830, Appendix I Modification citation number: D.1 Enter wording of WAC 173-303-830, Appendix I Modification citation: D.1. Closure, Changes to the closure plan.														
Modification Approved: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (state reason for denial) Reason for denial:			Reviewed by Ecology: <div style="text-align: center;"> G. P Davis Date </div> <div style="text-align: right; font-size: 1.2em;">4/19/06</div>											

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Hanford Facility RCRA Permit Modification Notification Form														
Unit: 305-B Storage Facility	Permit Part & Chapter: Part III, Chapter 2													
Description of Modification: Remove and replace Chapter 11.0 with the attached Chapter 11.0 dated June 30, 2006 Chapter 11.0, §11.1.4.2.5:														
11.1.4.2.5 Decontamination of Sumps <p> All collection sumps located at the 305-B Storage Facility, including those lining the storage cells on the west side of the unit, the sump along the east side inside wall, and those protecting the exits on the north and south ends, will be decontaminated by steam cleaning. Wastewaters collected in each sump from the implementation of the cleaning process will be pumped into polyethylene lined, closed top drums and analyzed as to whether or not the wastewater is designated as dangerous waste under WAC 173-303-070. If designated, the wastewater will be disposed of as dangerous waste. If the wastewater is not dangerous waste, the wastewaters will be discharged to the 300 Area process sewer system. The steam cleaning of all the sumps should take minimal time and generate approximately 100 gallons of wastewater. </p> <p> Following completion of decontamination, sampling will be performed, as described in Section 11.1.4.4, to verify that decontamination is complete. </p>														
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Hanford Facility RCRA Permit Modification Notification Form

Unit:

305-B Storage Facility

Permit Part & Chapter:

Part III, Chapter 2

Description of Modification:

Remove and replace Chapter 11.0 with the attached Chapter 11.0 dated June 30, 2006

Chapter 11.0, §11.1.4.3:

11.1.4.3 Management of Decontamination Waste

Liquid ~~de~~decontamination waste will be placed in ~~drums~~suitable containers and sampled to determine disposal requirements. ~~Grab samples will be collected from drums using COLIWASA samplers.~~ In order to properly designate the decontamination waste under WAC 173-303-070, ~~grab samples from each drum container~~ will be analyzed for the following:

- Corrosivity using the methods described in SW-846
- Flash point using methods described in SW-846
- Toxicity characteristic using the toxicity characteristic leaching procedure described in SW-846 (includes analysis for metals, volatile organics, and semi-volatile organics including chlorinated pesticides)

The results of sample analysis will be used to determine how to dispose of ~~liquid the~~ decontamination waste, including LDR [WAC 173-303 and 40 CFR 268]. The results of volatile and semi-volatile organic analysis of the liquid performed as part of the TCLP will be used to determine the presence of potential listed [WAC 173-303-081(1) and WAC 173-303-082(1)] dangerous waste constituents above background. (Background levels will be determined by analysis of the tap water used for makeup of the decontamination solutions.) Those liquid wastes with listed waste constituents above background will be designated as dangerous waste. The results of the ignitability, corrosivity, and TCLP analyses will be used to determine if liquid wastes are characteristic dangerous waste [WAC 173-303-090]. Organic and inorganic analytical results will also be used to determine if liquid wastes are dangerous waste mixtures [WAC 173-303-084]. Decontamination waste will be disposed in accordance with approved CERCLA documentation Removal Action Work Plan #1 for the 300 Area Facilities (DOE/RL-2004-77).

All non-liquid waste generated during decontamination of ~~dangerous waste~~ storage areas and equipment (e.g., personnel protective clothing) will be collected in ~~55-gallon open-head drums~~suitable containers and managed as ~~dangerous waste~~ in accordance with approved CERCLA decision documentation Removal Action Work Plan #1 for the 300 Area Facilities (DOE/RL-2004-77). All non-liquid waste generated during decontamination of mixed waste storage areas and equipment will be similarly collected and managed as mixed waste.

WAC 173-303-830 Modification Class ¹²

Please mark the Modification Class:

Class 1

Class ¹1

Class 2

Class 3

X

Enter relevant WAC 173-303-830, Appendix I Modification citation number: D.1

Enter wording of WAC 173-303-830, Appendix I Modification citation:

D.1. Closure, Changes to the closure plan.

Modification Approved: ☒ Yes ☐ No (state reason for denial)

Reason for denial:

Reviewed by Ecology:

Greta P. Davis

G. P Davis

Date

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Hanford Facility RCRA Permit Modification Notification Form														
Unit: 305-B Storage Facility	Permit Part & Chapter: Part III, Chapter 2													
<u>Description of Modification:</u> Remove and replace Chapter 11.0 with the attached Chapter 11.0 dated June 30, 2006 Chapter 11.0, §11.1.4.4:														
11.1.4.4 Methods for Sampling and Testing to Demonstrate Success of Decontamination														
<p><u>If sampling is necessary, the type and quality of analytical data appropriate to verify closure action levels would be determined before sampling. The data will be as specified in the 300 Area D&D Waste Sampling and Analysis Plan (DOE/RL-2004-084). Process knowledge and unit inspection results would be used to help resolve TSD unit sampling issues such as analytes of interest, sample location, number of samples, number and frequency of field quality control samples (i.e., trip blanks, equipment blanks, splits, and duplicates), sampling methodology, sample validation, data evaluation methods, and acceptance of sitewide background values. Sample handling, packaging and shipping, chain of custody, and laboratory quality assurance/ quality control are described in the 300 Area D&D Waste Sampling and Analysis Plan. A series of wipe samples will be collected at various points along floors, walls, ceilings, and equipment of areas at which decontamination activities were conducted. These samples will be analyzed and used to verify whether decontamination procedures were effective. To verify decontamination, a systematic sampling approach designed to identify the presence of "hot spots" will be employed. Samples will be collected on a regular grid with a spacing of 5 feet. This spacing provides an 80 percent probability of detecting a circular "hot-spot" having a radius of 2.5 feet or larger (Gilbert 1987, pp. 119-125). Biased sampling of areas more likely to have been contaminated by unit operations, such as cracks or seams in the concrete floor or any visible stains, or areas of documented spills or releases, will also be performed. If any "hot-spots" are detected, additional decontamination will be performed. Decontaminated surfaces will be sampled by collecting wipe samples at each grid point. At each sample location, two samples will be collected within adjacent 1 foot square templates. One sample will be collected using a gauze pad wetted with dilute nitric acid for extraction of inorganic contaminants. The other sample will be collected with a gauze pad wetted with hexane for extraction of organic contaminants.</u></p>														
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Modification Approved: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (state reason for denial) <u>Reason for denial:</u>			Reviewed by Ecology: <i>Greta P. Davis</i> G. P Davis Date: 4/19/06											

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Hanford Facility RCRA Permit Modification Notification Form				
Unit: 305-B Storage Facility	Permit Part & Chapter: Part III, Chapter 2			
<u>Description of Modification:</u> Remove and replace Chapter 11.0 with the attached Chapter 11.0 dated June 30, 2006 Chapter 11.0, §11.1.4.5: 11.1.4.5 Closure of Containers At closure, all containers will be removed from the 305-B Storage Facility. All dangerous waste residues will be removed from the containment system components. Contaminated equipment, floors, walls, and loading areas will be decontaminated or removed <u>inspected to determine whether they meet the criteria "clean debris surface"</u> . All decontamination equipment and rinsate will be containerized, tested, and properly disposed. Sampling and analysis will be conducted to ensure that no contamination remains around the storage area and containment system. Additional details for closure and decontamination are provided in Sections 11.1.4.1 through 11.1.4.3.				
WAC 173-303-830 Modification Class ^{1 2} Please mark the Modification Class:				
	Class 1	Class ¹	Class 2	Class 3
		X		
Enter relevant WAC 173-303-830, Appendix I Modification citation number: D.1 Enter wording of WAC 173-303-830, Appendix I Modification citation: D.1. Closure, Changes to the closure plan.				
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Hanford Facility RCRA Permit Modification Notification Form												
Unit: 305-B Storage Facility	Permit Part & Chapter: Part III, Chapter 2											
Description of Modification: Remove and replace Chapter 11.0 with the attached Chapter 11.0 dated June 30, 2006 Chapter 11.0, §11.1.4.6 through 11.1.4.11::												
11.1.4.6 Closure of Tanks This section is not applicable to the 305-B Storage Facility because waste are <u>were</u> not stored or treated in tanks.												
11.1.4.7 Closure of Waste Piles This section is not applicable to the 305-B Storage Facility because wastes are not stored in waste piles.												
11.1.4.8 Closure of Surface Impoundments This section is not applicable to the 305-B Storage Facility because wastes are <u>were</u> not placed in surface impoundments.												
11.1.4.9 Closure of Incinerators This section is not applicable to the 305-B Storage Facility because wastes are <u>were</u> not incinerated.												
11.1.4.10 Closure of Land Treatment Facilities This section is not applicable to the 305-B Storage Facility because wastes are <u>were</u> not treated in land treatment units.												
11.1.4.11 Closure of Disposal Facilities This section is not applicable to the 305-B Storage Facility because it will <u>will</u> not be closed as a dangerous waste disposal unit.												
<div style="display: flex; justify-content: space-between;"> <div style="width: 50%;"> WAC 173-303-830 Modification Class ^{1 2} Please mark the Modification Class: </div> <table border="1" style="width: 45%; border-collapse: collapse; text-align: center;"> <tr> <th style="padding: 2px 10px;">Class 1</th> <th style="padding: 2px 10px;">Class ¹1</th> <th style="padding: 2px 10px;">Class 2</th> <th style="padding: 2px 10px;">Class 3</th> </tr> <tr> <td style="height: 20px;"></td> <td style="height: 20px;">X</td> <td style="height: 20px;"></td> <td style="height: 20px;"></td> </tr> </table> </div>					Class 1	Class ¹ 1	Class 2	Class 3		X		
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Hanford Facility RCRA Permit Modification Notification Form												
Unit: 305-B Storage Facility	Permit Part & Chapter: Part III, Chapter 2											
Description of Modification: Remove and replace Chapter 11.0 with the attached Chapter 11.0 dated June 30, 2006 Chapter 11.0, §11.1.6:												
11.1.6 Closure Schedule When closure begins, the inventory of dangerous and mixed waste will be removed within 90 days from receipt of the final volume of waste. All closure activities will be completed within 180 days of receipt of the final volume of waste by December 31, 2006. The Director of the Washington State Department of Ecology will be notified by DOE-RL at least 45 days before the final closure activities are begun. Closure activities are summarized in Table 11.1. A detailed schedule of closure activities is provided in Figure 11.1.												
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Modification Approved: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (state reason for denial) <u>Reason for denial:</u>			Reviewed by Ecology: <div style="text-align: center;"> G. P Davis </div> <div style="text-align: right;"> 4/19/06 Date </div>									

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Hanford Facility RCRA Permit Modification Notification Form

Unit:

305-B Storage Facility

Permit Part & Chapter:

Part III, Chapter 2

Description of Modification:

Remove and replace Chapter 11.0 with the attached Chapter 11.0 dated June 30, 2006
Chapter 11.0, Table 11.1

Table 11.1. Summary of Closure Activities.

Closure Activity Description	Expected Duration
Receipt of final volume of dangerous and/or mixed waste	N/A
Notify EPA and Ecology that closure will begin	N/A
Remove waste inventory package all dangerous and mixed waste, manifest, and transfer to permitted facility for treatment and/or disposal	45 days
Obtain wipe samples from structural surfaces and equipment to identify areas of contamination and determine level of decontamination needed Perform visual inspection of the building in accordance with Section 11.1.4	10-15 days
Analyze wipe samples	25 days
Decontaminate structural surfaces and equipment using procedures based on results of wipe sampling described in Section 11.1.4	35 days
Obtain wipe samples to verify decontamination	25 days
Analyze verification samples	35 days
Analyze decontamination waste to determine proper methods of treatment/disposal	70-25 days
Dispose of decontamination waste based on results of waste analysis	20 days

WAC 173-303-830 Modification Class ^{1 2}

Please mark the Modification Class:

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D.1. Closure, Changes to the closure plan.

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Hanford Facility RCRA Permit Modification Notification Form					
Unit: 305-B Storage Facility	Permit Part & Chapter: Part III, Chapter 2				
<u>Description of Modification:</u> Remove and replace Chapter 11.0 with the attached Chapter 11.0 dated June 30, 2006 Chapter 11.0, Figure 11.1: Figure 11.1. Detailed Schedule of Closure					
WAC 173-303-830 Modification Class ^{1 2} Please mark the Modification Class:		Class 1	Class ¹ 1	Class 2	Class 3
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Enter relevant WAC 173-303-830, Appendix I Modification citation number: D.1 Enter wording of WAC 173-303-830, Appendix I Modification citation: D.1. Closure, Changes to the closure plan.					
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Hanford Facility RCRA Permit Modification Notification Form					
Unit: 305-B Storage Facility		Permit Part & Chapter: Part III, Chapter 2			
Description of Modification: Remove and replace Chapter 11.0 with the attached Chapter 11.0 dated June 30, 2006 Chapter 11.0, §11.2:					
11.2 CERTIFICATION OF CLOSURE Within 60 days of completion of the final closure activities described in this plan, a certification of closure will be submitted to Ecology. This certification will indicate that the 305-B Storage Facility has been closed as described in this plan and that the closure performance standards given in Section 11.1.1 have been met. The certification will be submitted by registered mail and will be signed by DOE-RL and an independent Professional Engineer registered in the State of Washington as described below. The DOE-RL owner and co-operator will self-certify with the following document or a document similar to it: <u>We, the undersigned, hereby certify that the 305-B Storage Facility closure activities were performed in accordance with the specifications in the Closure Plan, approved by Ecology on (date).</u> <u>I, (name), an authorized representative of the U.S. Department of Energy Richland Operations Office located at the Federal Building, 325 Jadwin Avenue, Richland, Washington, hereby state and certify that the 305-B Storage Facility at the 300 Area, to the best of my knowledge and belief, has been closed in accordance with the attached approved closure plan, and that the closure was completed on (date).</u> (Signature and date) The DOE-RL will engage an independent Professional Engineer registered in the State of Washington to will inspect closure activities, to verify that closure activities are being conducted according to this plan, and to certify that closure has been performed in accordance with this plan. The engineer will inspect the 305-B Storage Facility at least weekly while closure activities are being performed. During these inspections the engineer will observe closure activities to determine whether they are being performed according to this plan. Inspections will include, but not be limited to: <input type="checkbox"/> Inspection of dangerous and mixed waste containment structures and systems to determine whether releases of waste to the environment have occurred <input type="checkbox"/> Verification that the dangerous and mixed waste inventory has been removed within 90 days of receipt of the last waste shipment <input type="checkbox"/> Inspection of manifests and Operating Record to verify that these waste were disposed of in compliance with WAC 173-303 <input type="checkbox"/> Inspection of decontamination operations to verify that they are being performed using the procedures described in this plan <input type="checkbox"/> Inspections of the Operating Record to verify that samples of liquid decontamination waste were collected and analyzed using the procedures described in this plan <input type="checkbox"/> Inspection of the Operating Record to verify that decontamination waste were properly designated in compliance with WAC 173-303-070 and properly disposed. Inspections by the engineer will be documented in a bound notebook. Notations will include the date and time of the inspection, the areas inspected, the activities inspected, applicable closure plan requirements inspected, status of observed activities with respect to plan requirements, corrective actions required status of past corrective actions, and name and signature of inspector. This inspection notebook will be made available to Ecology upon request. Upon completion of closure according to the plan, the DOE-RL will require the independent professional engineer to will sign the following document or a document similar to it: <u>I, (name), a certified Professional Engineer, hereby certify, to the best of my knowledge and belief, that I have made visual inspection(s) of the 305-B Storage Facility at the 300 Area and that closure of the aforementioned unit has been performed in accordance with the attached approved closure plan.</u> (Signature, date, state Professional Engineer license number, business address, and phone number.)					
WAC 173-303-830 Modification Class ^{1 2}		Class 1	Class 1	Class 2	Class 3
Please mark the Modification Class:			X		
Enter relevant WAC 173-303-830, Appendix I Modification citation number: D.1					
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